Preliminary Amendment

## IAP17 Rec'd PCT/PTÓ 28 APR 2006

## AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) An earplug Earplug comprising:

a plug member for blocking a person's ear canal, said plug member comprising at least one acoustic channel for channeling incoming acoustic energy into said person's ear; said earplug farther comprising

a detector for detecting an acoustic energy level or for detecting a control signal that is indicative for of an acoustic energy level to be received; and

an acoustic valve positioned in said <u>acoustic</u> channel, and a control unit that, in response to said detector, controls said valve so as to <u>adjust attenuation of attenuate the</u> acoustic energy channeled through said acoustic channel.

- 2. (Currently Amended) <u>Earplug</u> The earplug according to claim 1, wherein said detector is positioned on thea mid-ear side of the acoustic valve.
- 3. (Currently Amended) <u>Earplug The earplug</u> according to claim 1-or 2, wherein said valve comprises a valve seat and a valve member, wherein the valve member is actuated by the control unit and wherein the valve seat comprises a body of micro-channels.
- 4. (Currently Amended) <u>Earplug The earplug</u> according to claim 3, wherein the body of microchannels comprises a wiring mesh.
- 5. (Currently Amended) <u>Earplug The earplug</u> according to <u>any of the preceding</u> elaims <u>claims</u> 3-or 4, wherein the valve member comprises a flexible foil closing said valve seat.
- 6. (Currently Amended) Earplug The earplug according to any of the claims 3–5claim 3, wherein said valve seat and said valve member each comprise an electrode for providing electrostatic attraction.

- 7. (Currently Amended) Earplug The earplug according to any of the claims 3-5claim 3, wherein at least one of either the valve seat and/or valve member are actuated by a piezo-element.
- 8. (Currently Amended) <u>Earplug The earplug</u> according to <u>any of the preceding</u> elaims<u>claim 1</u>, wherein, said valve is maintained at a <u>predetermined specified</u> attenuating position when said control unit is inactive.
- 9. (Currently Amended) <u>EarplugThe earplug</u> according to <u>any of the preceding</u> <u>claimsclaim 1</u>, wherein said acoustic valve and said detector are comprised in a modular housing that is insertable in the acoustic channel of said plug member.
- 10. (Currently Amended) Earplug The earplug according to any of the preceding: elaimsclaim 1, wherein the control signal is an acoustic signal.
- 11. (Currently Amended) <u>Earplug The earplug</u> according to <u>any of the preceding</u> elaimsclaim 1, wherein said detector comprises a microphone.
- 12. (Currently Amended) Modular Modular housing to be fitted in an acoustic channel of an ear plug, the modular housing comprising:

a detector for detecting an acoustic energy level or for detecting a control signal that is indicative for an acoustic energy level to be received, and

an acoustic valve to be positioned in said channel, further comprising; and

- a control unit that, in response to said detector, controls said <u>acoustic</u> valve so as to <u>attenuate the adjust attenuation of acoustic energy channeled through the acoustic channel.</u>
- 13. (New) The modular housing according to claim 12, wherein said detector is positioned on a mid-ear side of the acoustic valve.
- 14. (New) The modular housing according to claim 12, wherein said valve comprises a valve seat and a valve member, wherein the valve member is actuated by the control unit and wherein the valve seat comprises a body of micro-channels.

- 15. (New) The modular housing according to claim 14, wherein the body of microchannels comprises a wiring mesh.
- 16. (New) The modular housing according to claim 14, wherein the valve member comprises a flexible foil closing said valve seat.
- 17. (New) The modular housing according to claim 14, wherein said valve seat and said valve member each comprise an electrode for providing electrostatic attraction.
- 18. (New) The modular housing according to claim 14, wherein at least one of either the valve seat and/or valve member are actuated by a piezo-element.
- 19. (New) The modular housing according to claim 12, wherein, said valve is maintained at a specified attenuating position when said control unit is inactive.
- 20. (New) The modular housing according to claim 12, wherein said detector comprises a microphone.